## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/019586

		PC1/022	004/019386
A. CLASSIFIC	CATION OF SUBJECT MATTER 7 H01Q9/28, 1/38, G06K19/00		-
According to In	ternational Patent Classification (IPC) or to both national	al classification and IPC	
B. FIELDS SE	EARCHED		
Minimum docur Int.Cl	nentation searched (classification system followed by c 7 H01Q9/28, 1/38, G06K19/00	lassification symbols)	
Jitsuyo		ent that such documents are included in the Droku Jitsuyo Shinan Koho Itsuyo Shinan Toroku Koho	e fields searched 1994–2005 1996–2005
Electronic data I	base consulted during the international search (name of	data base and, where practicable, search to	erms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap		Relevant to claim No.
Y	JP 2002-259934 A (Dainippon Ltd.), 13 September, 2002 (13.09.02) Par. Nos. [0017] to [0021]; i (Family: none)		1-12
Y	JP 2002-11348 A (Kenwood Corp.), 12 April, 2002 (12.04.02), Par. Nos. [0030] to [0034]; Fig. 6 (Family: none)		1-12
¥	JP 2002-135037 A (Mitsubishi 10 May, 2002 (10.05.02), Full text; all drawings (Family: none)	Electric Corp.),	4-6
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "T" later document published after the date and not in conflict with the again		ation but cited to understand invention	
filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 24 January, 2005 (24.01.05)		Date of mailing of the international search report 08 February, 2005 (08.02.05)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
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Category*  Citation of document, with indication, where appropriate, of the relevant passages  Y	C (Continuation)	). DOCUMENTS CONSIDERED TO BE RELEVANT	
Y JF 2003-309418 A (Alps Electric Co., Ltd.), 31 October, 2003 (31.10.03), Full text; all drawings (Family: none)  Y JP 2002-290131 A (Mitsubishi Materials Corp.), 04 October, 2002 (04.10.02), Par. No. [0007]; Figs. 1, 2 & WO 2002/50951 A1 & WO 2003/30300 A1 & EP 1347533 A1 & WS 2004-75616 A & EP 1439608 A  Y JP 11-251509 A (Toshiba Corp.), 17 September, 1999 (17.09.99), Par. Nos. [0009] to [0015]; Fig. 4 (Family: none)  Y JP 9-83239 A (Matsushita Electric Industrial Co., Ltd.), 28 March, 1997 (28.03.97), Full text; all drawings (Family: none)  A JP 2001-251117 A (Mitsubishi Electric Corp.), 1-12 14 September, 2001 (14.09.01), Full text; all drawings	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
04 October, 2002 (04.10.02), Par. No. [0007]; Figs. 1, 2 & WO 2002/50951 A1 & WO 2003/30300 A1 & EP 1347533 A1 & US 2004-75616 A & EP 1439608 A  Y		31 October, 2003 (31.10.03), Full text; all drawings	8
17 September, 1999 (17.09.99), Par. Nos. [0009] to [0015]; Fig. 4 (Family: none)  Y	Y	04 October, 2002 (04.10.02), Par. No. [0007]; Figs. 1, 2 & WO 2002/50951 A1 & WO 2003/30300 A1 & EP 1347533 A1 & US 2004-75616 A	9
Co., Ltd.), 28 March, 1997 (28.03.97), Full text; all drawings (Family: none)  A JP 2001-251117 A (Mitsubishi Electric Corp.), 14 September, 2001 (14.09.01), Full text; all drawings	¥	17 September, 1999 (17.09.99), Par. Nos. [0009] to [0015]; Fig. 4	10
14 September, 2001 (14.09.01), Full text; all drawings	¥	Co., Ltd.), 28 March, 1997 (28.03.97), Full text; all drawings	11
	A	14 September, 2001 (14.09.01), Full text; all drawings	1-12

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